Programming Language Extensions For Processing Data Representation

Language Objects And Related Applications

5 <u>ABSTRACT OF THE DISCLOSURE</u>

A system is provided for manipulating data representation language based - objects in a native programming language environment. In one embodiment, the system is used to map data objects of the data representation language to

10 corresponding objects within the native programming language and vice versa. In one embodiment, the system is equipped to receive a mapping definition mapping selected elements of a data representation language, such as an XML data structure, to selected objects of a programming language, such as ECMAScript. The system is further equipped to determine whether the mapping definition comprises one or more

15 definitional statements expressed with data representation language oriented language elements of a programming language. Further, the system is equipped to process the mapping definition statements comprising data representation language oriented language elements of the programming language, in accordance with syntactical and semantic definitions of the data representation language oriented language elements.